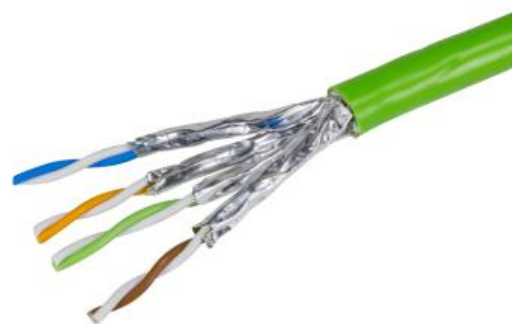




PROFINET 4TP type B Cable 8-wire, Cat. 6A, PVC

Advantages

- Suitable for PROFINET cabling
Category 6A / Class EA according to
ISO/IEC 11 801 respectively EN 50 173-1 and
ISO/IEC 24 702 respectively EN 50 173-3
- Capable flexible cords
- Applicable for industrial premises
- RoHS conform
- UL certified
- flame retardant
- UV-resistant

General

This data cable is suitable for PROFINET cabling according to type B in industrial premises and areas. It is useable for flexible cords.

The four pair/eight wire PIMF-construction allows the transmission of IT digital and analogue signals like Ethernet 10/100 Mbit/s, 10 GigaBit/s, video and voice services as well as IP-based data services.

The cable is fully screened (each pair in metal foil plus an overall wire braid) and guaranties a very protective signal transmission and high EMC performance.

This PROFINET cable can be assembled with all HARTING RJ Industrial® 10G connector.

Technical Characteristics

Performance Category 6A according to
EN 50 288, IEC 61 156

Mechanical Characteristics

Minimal bending radius Repeated bending:
8 x diameter
Single bending:
4 x diameter

Tensile strength max. < 150N

(UL-Style 21695 (80°C/600V))

Electrical Characteristics at 20 °C

Conductor resistance max. 75 Ohm/km

Insulation resistance min. 500 MOhm*km

Propagation delay 5,13 ns/m

Characteristic impedance at
100 MHz 100 Ohm ± 5 Ohm

Test voltage
(wire/wire/screen rms 50 Hz 1 min.) ≤800 V

Operating voltage 80 V

Chemical Characteristics

Flame retardant IEC 60 332-1-2

Free of hazardous substances RoHS 2002/95/EG

Thermal Characteristics

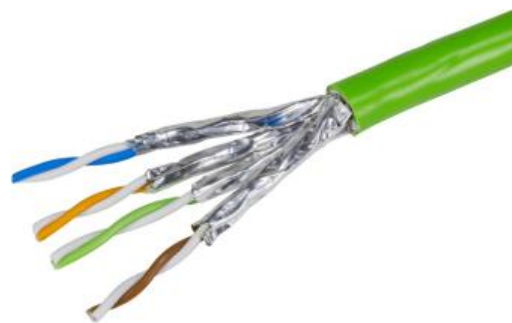
Permissible temperature range
fixed operation – 40 °C to + 80 °C
flexible operation – 40 °C to + 80 °C

Printing

HARTING INDUSTRIAL ETHERNET STANDARD
CABLE CAT6A * 4x2xAWG23/7 (SHIELED) „RU“ AWM
Style 21695 094560001080200 „sequential length in
metres“ * „year/internal order number“

Weight about 81 kg/km

PROFINET 4TP type B Cable 8-wire, Cat. 6A, PVC



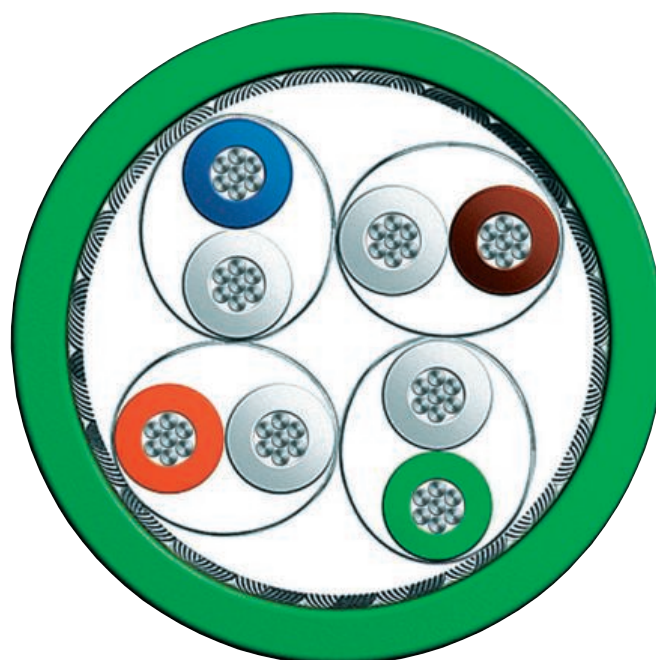
Identification

Part number

Drawing

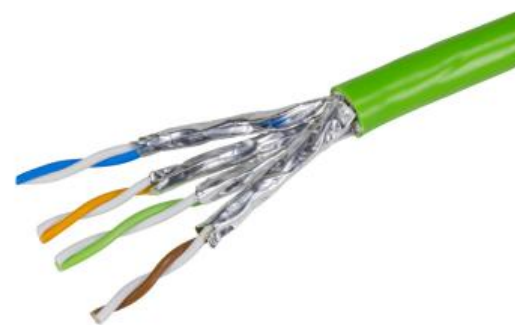
PROFINET 4TP type B cable 8-wire, Cat. 6A, PVC

20 m ring	09 45 600 1211
50 m ring	09 45 600 1221
100 m ring	09 45 600 1231
500 m reel	09 45 600 1241



- Wire: Stranded tinned copper AWG 23/7
- Insulation: PE Ø 1.59 mm
- Color: wh/bu, wh/og, wh/gn, wh/bn
- 4 Pairs: Aluminate foil overlapped (PIMF)
- Overall screen: tinned copper wire braid, braid coverage about 85%
- Outer sheath: Polyvinylchloride (PVC), flame retardant

Color of outer sheath: green, RAL 6018
Overall diameter: 8.7 mm



PROFINET 4TP type B Cable
8-wire, Cat. 6A, PVC

Technical Characteristics

Frequency (MHz)	Attenuation (dB/100m)	Next (dB)	PS next (dB)	EL fext (dB)	PSEL fext (dB)	Return loss (dB)
1	2.1	75,3	72.3	67.8	64.8	20
4	3.8	66,3	63.3	55.8	52.8	23
8	5.3	61,8	58.8	49.7	46.7	24.5
10	5.8	60,3	57.3	47.8	44.8	25
16	7.5	57,2	54.2	43.7	40.7	25
20	8.4	55,8	52.8	41.8	38.8	25
25	9.4	54,3	51.3	39.8	36.8	24.3
31,25	10.5	52,8	49.9	37.9	34.9	23.6
62,5	15	48,4	45.4	31.9	28.9	21.5
100	19.1	45,3	42.3	27.8	24.8	20.1
200	27.6	40,8	37.8	21.8	18.8	18
250	31.1	39,3	36.3	19.8	16.8	17.3
300	34.3	38,1	35.1	18.3	15.3	17.3
400	40.1	36,3	33.3	15.8	12.8	17.3
500	45.3	34,8	31.8	13.8	10.8	17.3

Mouser Electronics

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